

**WHAT WE CLAIM IS:**

1. A homogeneous composition of a mammalian DNA-R or derivative thereof having a molecular weight of about 150 kilodaltons and an amino acid sequence identified by SEQ ID No.:2.
2. A homogeneous composition of a DNA-binding fragment of a mammalian DNA-R or derivative thereof having a molecular weight of about 63 kilodaltons and an amino acid sequence identified by amino acids 1-575 of SEQ ID No.:2.
3. A homogeneous composition of a soluble mammalian DNA-R or derivative thereof having a molecular weight of about 145 kilodaltons and an amino acid sequence identified by SEQ ID No.:2 wherein amino acids 1133-1171 are deleted therefrom.
4. A cell membrane preparation comprising a mammalian DNA-R or derivative thereof having a molecular weight of about 150 kilodaltons and an amino acid sequence identified by SEQ ID No.:2.
5. A cell membrane preparation comprising a mammalian DNA-R or derivative thereof having a molecular weight of about 63 kilodaltons and an amino acid sequence identified by amino acids 1-575 of SEQ ID No.:2.
6. A cell membrane preparation comprising a mammalian DNA-R or derivative thereof having a molecular weight of about 145 kilodaltons and an amino acid sequence identified by SEQ ID No.:2 wherein amino acids 1133-1171 are deleted therefrom.